

Claims

1. Device for the insertion of deformable intra-ocular lenses, with which device an intra-ocular lens in an elastically deformable state can be injected through a cannula (5) into an eye by means of a plunger (6) which can be moved in a translatory manner in the device,
5 characterized by the fact that the device comprises a lens holder (1) which can be inserted into the device, that the lens holder comprises an elastic base (8) which can be deformed in such a manner that it can be deformed starting from a relaxed, open position by bending into a stressed, closed position, where during the deformation the intra-ocular lens in contact with the lens holder (1) is subjected to an increasing curvature.
- 10 2. Device according to claim 1, characterized by the fact that the plunger (6) comprises on its free end an indentation (25) running essentially in the direction transverse to the cross section of the plunger, said indentation being intended for the purpose of receiving an edge of the intra-ocular lens.
- 15 3. Device according to one of the foregoing claims, characterized by the fact that it comprises a bearing part (4) for the lens holder (1), said bearing part being open towards the outside.
4. Device according to one of the foregoing claims, characterized by the fact that it comprises an alignment device (7) for the plunger (6).
- 20 5. Device according to claim 4, characterized by the fact that the alignment device (7) comprises a guide element (27) lying on the plunger (6).
6. Device according to one of claims 4 to 5, characterized by the fact that the bearing part (4) and the alignment device (7) are connected to one another in such a manner that they can be detached.

7. Device according to one of claims 4 to 5, characterized by the fact that the bearing part (4) and the alignment device (7) are connected with one another as one piece.

8. Device according to one of claims 3 to 7, characterized by the fact that the bearing part (4) and the cannula (5) are connected with one another as one piece.

5 9. Device according to one of claims 3 to 8, characterized by the fact that the lens holder (1) does not project out of the bearing part (4).

10. Device according to one of the foregoing claims, characterized by the fact that the elastic base (8) in the stressed position forms a channel (18) in which the curved intra-ocular lens is located.

10 11. Device according to claim 10, characterized by the fact that the channel (18) formed in the stressed position becomes narrower toward one side of the device.

12. Device according to one of claims 10 to 11, characterized by the fact that that the channel (18) has a helical cross section at its end facing the cannula (5).

15 13. Device according to one of claims 3 to 11, characterized by the fact that the bearing part (4) comprises a passageway opening (28) for the intra-ocular lens, said passageway opening having a helical cross section on its side facing the channel (18) in the lens holder (1).

14. Device according to one of the foregoing claims, characterized by the fact that the elastic base (8) has on its side facing the plunger (6) a tapering (14) in order to form a guide for the plunger (6).

15. Device according to one of claims 1 to 13, characterized by the fact that the alignment device (7) comprises at its end facing the lens holder (1) a guide face for the plunger (6).

16. Device according to one of the foregoing claims, characterized by the fact that there are connecting means (15, 16) at the lens holder (1) in order to hold the lens holder in its closed
5 position.

17. Device according to one of the foregoing claims characterized by the fact that catching means (20) are present in order to position and to hold the lens holder in the device.